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SOURCE Turk Yuksek Muhendisleri Birligi Dergisi.WATERWORKS CONSTRUCTION PROGRAM IN TURKEY FOR 1951 AND 1952

[The following tables list data on large waterworks undertaken by the Public Works Ministry in 1951, and individual waterworks projects for 1951 and 1952. All projects are in conformity with Law No 5259 pertaining to Turkish waterworks.]

Large Waterworks Program for 1951

Province	Description of Project	Total Cost	1951 (1,000 Turkish lira)	1952	1953 and Other Years
Bursa	Canbollu-Uluabat levee and pumping station	863	--	663	200
Manisa	Marmara feeder canal and Menemen levee gate	1,662	--	700	962
Manisa	Kumcayi Stream and tributaries, fourth [sic]	955	--	500	455
Denizli	Improvement of canal Saraykoy irrigation	664	--	350	314
Seyhan	Improvement of Seyhan tributaries	279	28	251	--
Icel	Improvement of Silifke Stream and left bank irrigation	1,389	--	700	689
Icel	Drainage of Erdemli Swamp	188	37	151	--

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<u>Province</u>	<u>Description of Project</u>	<u>Total Cost</u>	<u>1951</u> (1,000 Turkish lira)	<u>1952</u>	<u>1953 and Other Years</u>
Icel	Completion of Tarsus irrigation network	858	--	500	358
Erzincan	Improvement of Erzincan Plain and first-phase irrigation	1,075	--	600	475
Erzincan	Improvement of Erzincan Plain and second-phase irrigation	1,925	--	1,200	725
	Various mapping projects	610	98	512	--
	Miscellaneous projects	296	25	271	--
	Total	10,764	188	5,398	5,178

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Individual Waterworks Program for 1951

<u>Province</u>	<u>Description of Work</u>	<u>Total Cost</u>	<u>1951</u> (1,000 Turkish lira)	<u>1952</u>	<u>1953</u>
Bursa	Improvement of Gemlik Stream				
"	Improvement of Orhangazi Stream	391	75	250	66
Canakkale	Drainage of Kumkale Swamp	877	--	400	477
Manisa	Drainage of Kula-Kayrak Swamp	267	102	165	--
"	Drainage of Kula-Menye Swamp				
"	Improvement of Turgutlu-Karacali Stream	237	--	180	57
Izmir	Improvement of Menemen-Kunduz Stream	64	--	64	--
"	Drainage of Menemen-Buruncuk Swamp	150	26	124	--
"	Improvement of Koca-Mala Stream				
Aydin	Bozdogan-Akcaay Stream groins (second phase)	584	43	434	107
Denizli	Drainage of Acipayam Swamp				

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Province	Description of Work	Total Cost	(1,000 Turkish lira)		
			1951	1952	1953
Aydin	Improvement of Nazilli-Derekoy Stream				
Aydin	Improvement of Aydin-Tabakhane Stream	171	32	100	39
Denizli	Baklanova-Isabeyli drainage canal	72	18	67	--
Mugla	Improvement of Koycegiz-Kargi Stream				
"	Improvement of Hammam (Dogusbelen) Stream	115	28	87	--
"	Improvement of Fethive-Esen Stream				
Seyhan	Drainage of Kozan-Hamam Swamp				
"	Drainage of Kozan-Bekirce Lake				
"	Antierosion groins to protect Mercimek village from Ceyhan River	59	34	25	--
Seyhan	Drainage of Kurukulak Swamp in Kozan District				
"	Improvement of Doruk (Kandak) Stream in Ceyhan District	252	54	185	13
"	Improvement of Saricam Stream in the Mercimek region of Ceyhan District				
Hatay	Improvement of Askarbeyli Stream in Iskenderun District	73	31	42	--
"	Improvement of Karaali Stream in Antalya District	145	42	80	23
Konya	Drainage of Sugla Lake in Karaman District	616	--	303	316
Kayseri	First-phase irrigation of Uzunyayla region	177	--	140	37
"	First-phase drainage of swamp	515	42	423	50
"	Damsa dam in Urgup District	1,010	--	500	510
Nigde	First-phase swamp drainage in Aksaray District	520	--	300	220
Afyon	First-phase drainage of Balmahmut-Yildirimkemal Swamp	47	47	--	--

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<u>Province</u>	<u>Description of Work</u>	<u>Total Cost</u>	<u>1951</u> (1,000 Turkish lira)	<u>1952</u>	<u>1953</u>
Amasya	Improvement of Gumusdere Stream in Gumushacikoy District	92	16	76	--
Sivas	Improvement of Kanak Stream in Sarkisla District	--	--	--	--
"	Improvement of Koc Stream in Hafik District	--	--	--	--
Ordu	Improvement of Bulbul Stream	166	34	132	--
Corum	Improvement of Corum tributaries and improvement of Alaca Stream	259	99	130	30
Eskisehir	First-phase drainage of Sakarya swamps	409	--	200	209
Kastamonu	Improvement of Bozkurt (Ezine) Stream in Abana District	112	83	29	--
Cankiri	Improvement of Eskipazar Stream	67	40	27	--
Zonguldak	Improvement of Devrek Stream	98	--	90	8
Kocaeli	Improvement of Sapanca tributaries	254	123	110	21
"	Antierosion groins for Kumbasi village	65	--	65	--
"	Completion of Pamukova drainage canal and improvement of its tributaries	94	--	94	--
"	Improvement of Izmit and Sehirici streams	411	--	311	100
Bolv.	First-phase drainage of Efteni (Melen) Lake in Duzce District	97	--	85	12
"	First-phase improvement of Dortdivan Plain in Gerede District	420	--	230	190
"	First-phase improvements of Buyuksu and Mudurnu streams				

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<u>Province</u>	<u>Description of Work</u>	<u>Total Cost</u>	<u>1951</u> (1,000 Turkish Lira)	<u>1952</u>	<u>1953</u>
Kutahya	First-phase drainage of Altintas Plain (exclusive of irrigation work)	467	4	200	263
"	First-phase irrigation of Kutahya Plain from Porsuk River	422	9	280	133
Kutahya	Improvement of Porsuk River bed at Besdegirmenler	195	--	100	95
Antalya Burdur	Armutlu-Horzum regulator drainage of Gulhisar Swamp in Tefenni District	180	21	140	19
Antalya	Completion of odds and ends on Finike Plain irrigation system	52	--	52	--
"	Construction of Aksu regulator				
Isparta	Second-phase improvement of Lake Egridir outlet and construction of Egridir regulator	791	--	661	130
Antalya	Drainage of Lake Sogut	315	--	200	115
Antalya	Ulualan irrigation system in Manavgat District	490	--	260	230
Erzurum	Second-phase drainage of Karasu Swamp	424	81	300	43
"	Improvement of Erzurum and Schirici streams	355	40	195	120
Bitlis	Drainage of Golbasi Swamp	100	--	70	30
Gumushane	Improvement of Pulurcavi Stream in Bayburt District	86	--	86	--
Kars	Drainage of Gölyeri Swamp and improvement of drainage canal	381	41	300	40
Malatya	First-phase irrigation of Doganşehir Region	444	--	300	40

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<u>Province</u>	<u>Description of Work</u>	<u>Total Cost</u>	<u>1951</u> (1,000 Turkish lira)	<u>1952</u>	<u>1953</u>
Van	Irrigation of Beyarki system in Gevas District	389	--	270	119
Elazig	First phase of Uluova irrigation system	2,089	81	500	1,508
"	Golbasi regulator and straightening out of the lake outlet; improvement of the bed of Incesu Stream	100	--	70	30
	Total	16,439	1,376	10,757	4,306

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Individual Waterworks Program for 1952

Province	District	Description of Project	Cost (1,000 Turkish lira)	1952	1953	1954	Flood Control (ha)	Swamp Drainage (ha)	Irriga- tion (ha)	Towns and Installations to Be Protected
Bursa	Yenisehir	Improvement of Toprak- cekkereci Stream	220	50	170	--	1,500	--	--	--
"	Izmit	Improvement of Lake Izmit outlet	155	50	105	--	--	420	--	--
Balıkesir	Mangac	Flood protection measures for towns of Camli and Muradiye, located on Muradiye Stream	75	25	50	--	300	--	--	--
"	Gonen	Improvement of Gonen and Sarıbey plains	200	40	160	--	2,800	--	--	--
Antalya	Karamanli	Improvement of Tatakhan Stream	20	20	--	--	--	--	--	--
"	Gecek	Improvement of Begir- mender- and Uslu streams	40	40	--	--	--	--	--	Town
"	Izmit	First-phase improve- ment of Izmit Swamp and tributaries (Kuller, Bekirdere)	150	50	100	--	--	1,600	--	Town

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Kocaeli	Adapazari	Drainage of Gokceoren Swamp and first-phase improvement of Cark Stream	300	50	200	50	--	900	--	--
"	"	Improvement of Dinsiz Stream	200	50	150	--	--	--	--	--
"	"	Second-phase improvement of Spanca tributaries	250	50	150	50	23	--	--	--
Izmir	Izmir	Protection of Bornova from Kocadere Stream floods	50	50	--	--	--	--	--	--
"	Menemen	Drainage of Cigli Swamp	15	15	--	--	--	70	--	Town
"	Bergama	Improvement of Kozak Stream	30	30	--	--	--	--	--	--
"	Kusadasai	Drainage of Guzelcamli Swamp	50	50	--	--	--	75	--	Town
"	"	Drainage of Efes Swamp	150	50	100	50	--	35	--	--
"	Torbali	Protection of Sehittler village from Petrek Stream floods	30	30	--	--	--	--	--	--
"	Tire	Protection of Kirtepe and Kizilcaova villages from Egridere Stream floods	30	30	--	--	--	--	--	Village
"	Menemen	Improvement of Guzelhisar Stream	250	50	150	50	700	--	--	Town

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Manisa	Manisa	Protection of the Yeni-gocmen region from floods of the Akmescit and Haydar streams	50	50	--	--	--	--	--	--
"	Alasehir	Protection of Derekoy Village from floods	200	50	150	30	--	--	--	Village
"	Akhisar	Flood protection work for Medar village	290	50	190	50	1,000	--	--	--
"	Salihli	Improvement of Gumus Stream	500	50	200	250	300	--	--	--
"	Akhisar	Irrigation of Mutevelli mill canal on Kumcay Stream	150	50	100	--	--	--	3,000	--
Aydin	Cine	First-phase improvement of Kalabak Stream	500	50	200	250	--	--	--	--
Mugla	Milas	First-phase drainage of Teffur Anbari Swamp	800	50	350	400	--	3,000	--	--
"	"	Irrigation of Kadikoy by Esen Stream	100	50	50	--	--	--	1,000	--
Denizli	Denizli	Improvement of Kaklik and Alikurt streams	50	50	--	--	15	--	--	Village, Station
"	Saraykoy	Improvement of Gedikli Stream	50	50	--	--	--	--	--	Town, Highway
"	"	Improvement of Duacali Stream	50	50	--	--	--	--	--	Village

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Denizli	Saraykoy	Improvement of Burhaniye Stream	30	30	--	--	--	--	--	Village
"	"	Drainage of Kabaagac Hamam Swamp	5	5	--	--	--	15	--	--
"	Cal	Hancalar irrigation canal	150	50	100	--	--	--	450	--
"	Acipayam	Irrigation of Kelekci village	100	50	50	--	--	--	1,000	--
"	"	Irrigation canal for Kumavsar village	80	50	30	--	--	--	1,000	--
Afyon	Dinar	Improvement of Leylek Stream and protection of Dumbay Plain from floods	100	60	40	--	4,000	--	--	--
"	Afyon	Second-phase drainage of Yildirim Kemal-Balmahmut Swamp	200	200	--	--	--	--	--	--
"	Bolvadin	Demirli irrigation	150	50	100	--	--	--	--	--
Gaziantep	Islahiye	First-phase drainage of Emen Swamp	350	50	250	50	--	300	--	--
Hatay	Iskenderun	Improvement of tributaries in Karaagaccli area	300	50	200	50	150	--	--	Village
"	"	Second-phase improvement of Askarbeyli Stream	200	50	100	50	--	--	--	Town

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Icel	Mersin	Reinforcing banks of Efrenk Stream	50	50	--	--	--	--	--	--
Konya	Karaman	Construction of Ayranci dam	900	50	350	500	--	--	--	--
"	Eregli	Irrigation of Alam Arki region	500	50	250	200	--	--	--	--
"	Ilgin	Improvement of Bolasan Stream	650	50	200	400	--	--	--	--
Kirsehir	Avanos	Flood protection for Topakli village	250	50	150	50	--	--	--	--
Samsun	Bafra	Improvement of Harizyan streams [sic]	60	60	--	--	--	--	--	--
"	Carsamba	Carsamba antierosion groins in river	75	75	--	--	--	--	--	Town
"	Ladik	Improvement of Ladik Stream	80	80	--	--	--	--	--	Town
"	Terme	Improvement of Karabogaz Stream	1,000	50	300	650	--	--	--	Town
Amasya	Amasya	Improvement of Derbent Stream	250	50	150	50	--	--	--	--
"	Gumushacikoy	Improvement of Emirler Stream	70	70	--	--	--	--	--	--
"	Amasya	Drainage of Curuksu Swamp	140	50	90	--	--	--	--	Town

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Tokat	Tokat	Flood protection for city of Tokat	600	100	200	300	--	--	--	Town
"	Zile	Improvement of Zile tributaries (Derębogaz Sayac)	260	60	200	--	--	--	--	Town
"	Erbaa	First-phase irrigation of Erbaa Plain	2,000	100	700	1,200	--	--	2,000	--
"	"	Improvement of Erbaa tributaries	60	60	--	--	--	--	--	Town
"	Turhal	Protection of Turhal Plain against floods of Yesil Irmak River	200	50	150	--	--	--	--	--
Corum	Osmancik	Improvement of Osmancik tributaries	80	80	--	--	--	--	--	Town
"	Iskilip	Improvement of Iskilip tributaries	600	100	200	300	--	--	1,200	Town
Giresun	Alucra	First-phase irrigation of Alucra Plain	50	50	--	--	--	--	--	--
Yozgat	Yozgat	Improvement of Kiraz Stream	90	50	40	--	--	--	--	Town
"	Yerkoy	Improvement of Delice River and irrigation of surrounding region	200	50	100	50	--	--	--	--
Antalya	Akseki	Second-phase improvement of Akseki Cevizli Plain	50	50	--	--	--	--	--	--

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Antalya	Elmalı	Improvement of Lake Avlan	30	30	--	--	--	800	--	--
"	"	Improvement of Eskihisar Stream which feeds Lake Kara	100	50	50	--	--	400	--	--
"	Kas	First-phase improvement of Ovagelemis Swamp	200	50	150	--	--	1,500	--	--
"	Finike	Improvement of Alakir Stream	50	50	--	--	--	400	Coast	--
"	Alanya	Irrigation of left bank of Dim Stream	200	50	150	--	--	--	--	--
Burdur	Burdur	Drainage of Pinarbasi (Eynes) Swamp	80	80	--	--	--	40	--	--
"	Bucak	Drainage of Yuvkoy Swamp	25	25	--	--	--	70	--	--
"	"	Improvement of Anbahan Lake and Kocadere Stream	70	50	20	--	50	--	--	--
"	"	Improvement of Lake Kestel	2,500	50	700	1,750	50	3,000	4,000	--
"	Tefenni	Improvement of Cavdir Stream	80	50	30	--	--	--	--	--
"	"	First-phase of the Lake Karatas irrigation system	200	50	150	--	--	100	--	--
"	"	Improvement of Tefenni Stream	20	20	--	--	--	--	--	--

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Burdur	Yesilova	Drainage of Genc Ali Swamp	40	40	--	--	--	--	--	--
Isparta	Isparta	Improvement of Isparta Stream	200	50	150	--	--	--	--	--
"	Sarki-Karaagac	Improvement of Sarkikaraagac Stream	670	70	300	300	--	--	--	Town
"	Yalvac	Improvement of Gelendos Stream	200	50	150	--	--	--	--	--
"	Egridir	Drainage of Yilanli Swamp	40	40	--	--	--	100	--	--
Erzincan	Refahiye	Improvement of stream which passes through Refahiye	100	50	50	--	--	--	--	--
Agri	Dogu-Bayazit	First-phase of Dogu-bayazit irrigation system	500	50	250	200	--	--	4,000	--
Kars	Igdir	Baskoy Levee and Arapkir antierosion groins	650	50	400	200	--	--	--	--
Agri	Eleskirt	Eleskirt Plain irrigation system	450	50	300	100	--	--	6,000	--
Erzurum	Pasinler	Pasinler Plain irrigation system	400	50	250	100	--	--	2,000	--
Trabzon	Trabzon	Improvement of Tabakhane and Zanos streams	100	50	50	--	--	--	--	--

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Coruh	Coruh	First-phase of the Coruh irrigation system	400	50	250	100	--	--	--	--
Bolu	Mengen	Improvement of Besler and Kaynarca streams	100	50	50	-	--	--	--	Village
"	Duzce	Improvement of Asar Stream	70	50	20	--	--	--	--	Town
"	Mudurnu	Improvement of stream which passes through Mudurnu	100	50	50	--	--	1,600	--	Town
"	Gerede	Drainage of part of Lake Yenicega	200	50	150	--	--	--	--	--
Zonguldak	Caycuma	Flood protection for new quarter of Caycuma	60	60	--	--	15	--	--	Town
"	"	Prevention of soil erosion by Filyos River at Burunkaya village	30	30	--	--	--	--	--	--
"	Ulus	Improvement of Goksu and Kumluca streams	100	60	40	--	35	--	--	--
"	Safranbolu	Protection of Oylebeli from floods of the Arac	20	20	--	--	--	--	--	Town
"	Devrek	Improvement of Devrek tributaries	50	50	--	--	--	--	--	Town
Elazig	Elazig	Improvement of Elazig tributaries	180	50	130	--	--	--	--	--
Bitlis	Ahlat	Flood protection for Tunus region	50	50	--	--	--	--	--	--

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Tunceli	Ovacik	First-phase of Ovacik irrigation	300	50	200	50	--	--	3,000	--
"	"	Peri Plain irrigation	200	50	150	--	--	--	-	--
Malatya	Malatya	Izolu-Cakcek irrigation	20	20	--	--	--	-	1,000	--
"	"	Irrigation of Keferdiz Subdistrict	35	35	--	--	--	--	600	--
"	"	Irrigation of Agvan village	15	15	--	--	--	--	500	--
"	"	Drainage of Prot Swamp	25	25	--	--	--	30	--	--
"	Arapkir	Improvement of Arapkir irrigation canal	75	75	--	--	--	--	200	--
Mardin	Nusaybin	Second phase of Cagcag irrigation	300	50	250	--	--	--	--	--
Ankara	Cankaya	Construction of the Dikmen Stream diversion canal and dredging Incesu Canal	400	100	300	--	--	--	--	--

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